

Figure 1

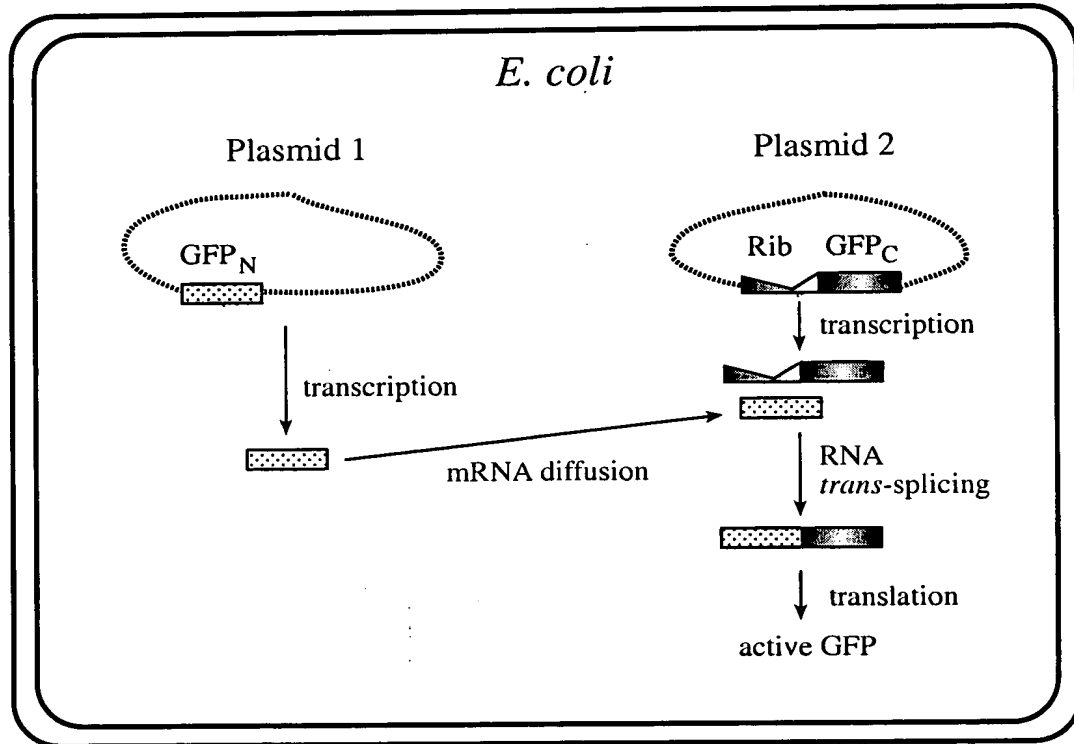


Figure 2

smGFP gene fragment 1 mRNA
(SEQ ID NO:2)

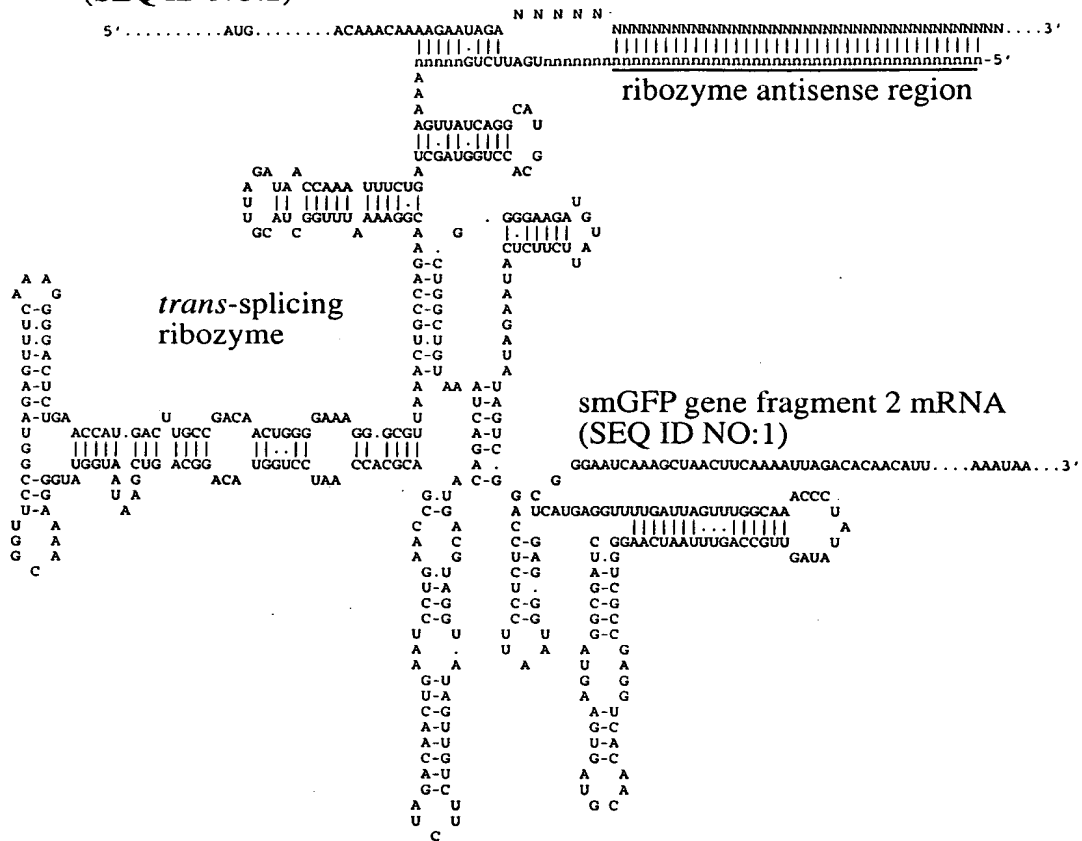
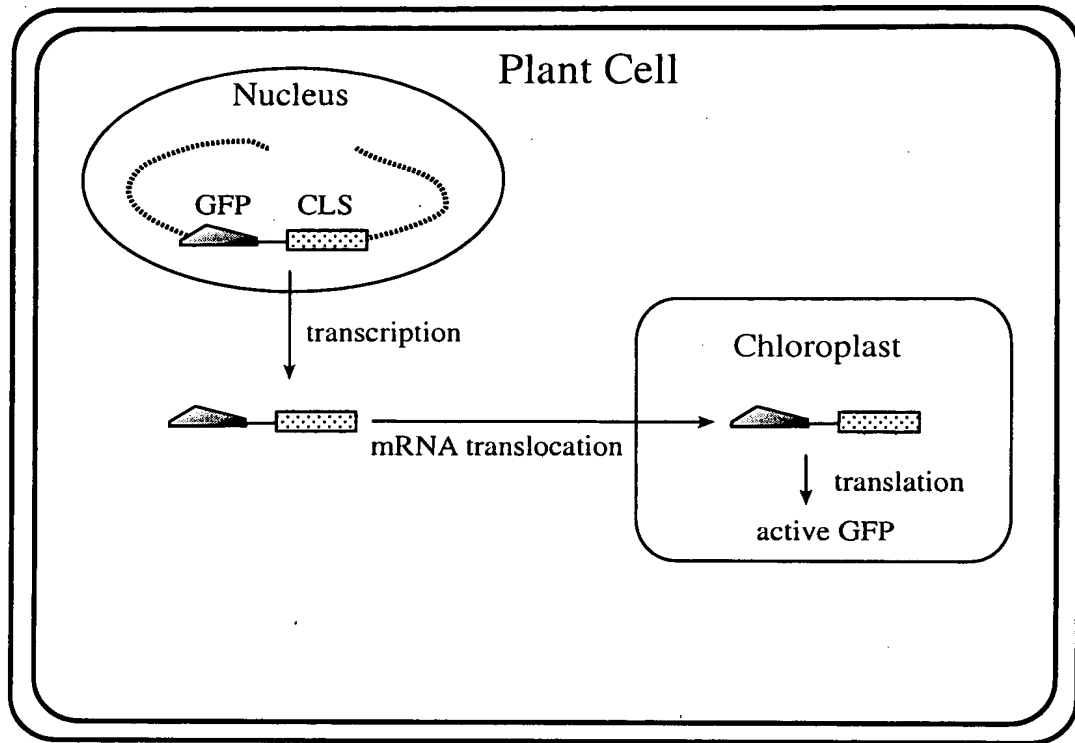


Figure 3

Figure 4



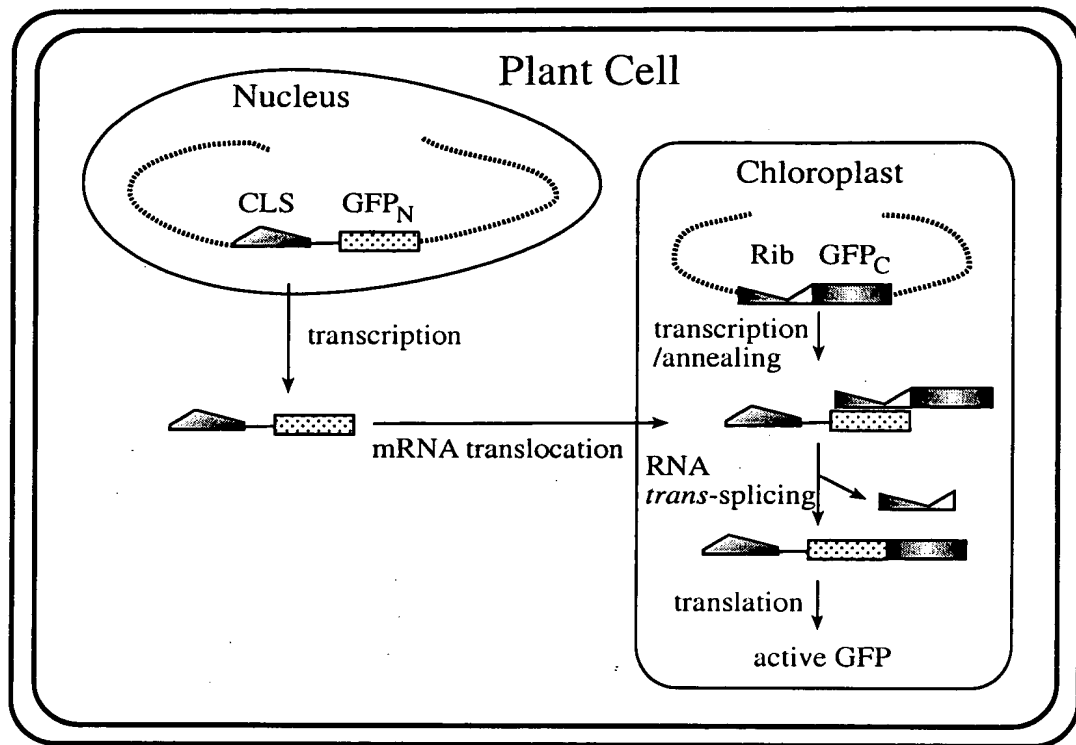


Figure 5

Figure 6

SEQ ID NO:3

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1  tttattagaa caagaagtga ggatatgatt aaactttggt tgacgaaacc
51 aggtctgttc cgactttccg actctgagtt tcgacttggt agagaaggag
101 gagtcgtggt gaacttttat taaaaaaatt agttcactcg tcttcaatct
151 cttgatcact tcgtctcttc agggaaagat gggaagaaca ctgatgagtc
201 tcgcaagggt tactcctcta tcttcattgt ttttttacia aatcttg
```

Figure 7



Figure 8A

pVUG1 segment 5689-6757

(SEQ ID NO:4)

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5689   tttattagaa caagaagtga ggatatgatt aaactttgtt tgacgaaacc
5739   aggtctgttc cgactttccg actctgagtt tcgacttgtg agagaaggag
5789   gagtcgtggt gaacttttat taaaaaaaaatt agttcactcg tcttcaatct
5839   cttgatcact tcgtgctagc atgtatttgg caaatcaaat accatgggtct
5889   aataatcaaa cattctgatt agttgataat attagtatta gttggaaatt
5939   ttgtgaaaga ttcctatgaa aagtttcatt aacacggaat tcgtgtcgag
5989   tagaccttgt tgttgtgaga attcttaatt catgagttgt agggagggat
6039   ttATGAGTAA AGGAGAAGAA CTTTTCAC TGAGTTGTCCC AATTCTTGTT
6089   GAATTAGATG GTGATGTTAA TGGGCACAAA TTTTCTGTCA GTGGAGAGGG
6139   TGAAGGTGAT GCAACATACG GAAAACTTAC CCTTAAATTT ATTTGCACTA
6189   CTGGAAAAC TACCTGTTCCA TGGCCAACAC TTGTCACTAC TTTCTCTTAT
6239   GGTGTTCAAT GCTTTTCAAG ATACCCAGAT CATATGAAGC GGCACGACTT
6289   CTTCAAGAGC GCCATGCCTG AGGGATACGT GCAGGAGAGG ACCATCTCTT
6339   TCAAGGACGA CGGGAAC TAC AAGACACGTG CTGAAGTCAA GTTTGAGGGA
6389   GACACCCTCG TCAACAGGAT CGAGCTTAAG GGAATCGATT TCAAGGAGGA
6439   CGGAAACATC CTCGGCCACA AGTTGGAATA CAACTACAAC TCCCACAACG
6489   TATACATCAC GGCAGACAAA CAAAAGAATG GAATCAAAGC TAACTTCAAA
6539   ATTAGACACA ACATTGAAGA TGGAAGCGTT CAACTAGCAG ACCATTATCA
6589   ACAAATACT CCAATTGGCG ATGGCCCTGT CCTTTTACCA GACAACCATT
6639   ACCTGTCCAC ACAATCTGCC CTTTCGAAAG ATCCCAACGA AAAGAGAGAC
6689   CACATGGTCC TTCTTGAGTT TGTAACAGCT GCTGGGATTA CACATGGCAT
6739   GGATGAACTA TACAAATAA
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Figure 8B

pVUG2 segment 5689-6757
(SEQ ID NO:5)

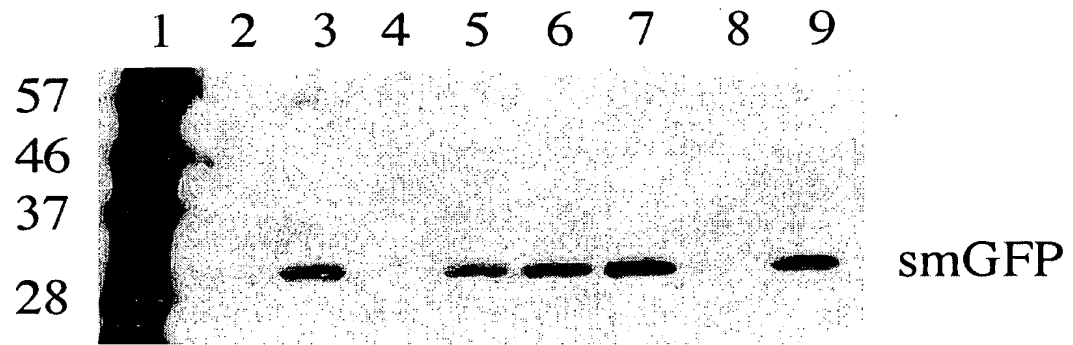
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5739  tcactcgtct tcaatctctt gatcacttcg tctcttcagg gaaagatggg
5789  aagaacactg atgagtctcg caaggtttac tcctctatct tcattgtttt
5839  ttacaaaaat cttggctagc atgtatttgg caaatcaaat accatggtct
5889  aataatcaaa cattctgatt agttgataat attagtatta gttggaaatt
5939  ttgtgaaaga ttcctatgaa aagtttcatt aacacggaat tcgtgtcgag
5989  tagaccttgt tgttgtgaga attcttaatt catgagttgt agggagggat
6039  ttATGAGTAA AGGAGAAGAA CTTTTCAC TGAGTTGTCCC AATTCTTGTT
6089  GAATTAGATG GTGATGTTAA TGGGCACAAA TTTTCTGTCA GTGGAGAGGG
6139  TGAAGGTGAT GCAACATACG GAAAACCTAC CCTTAAATTT ATTTGCACTA
6189  CTGGAAAAC TACCTGTTCCA TGGCCAACAC TTGTCAC TAC TTTCTCTTAT
6239  GGTGTTCAAT GCTTTTCAAG ATACCCAGAT CATATGAAGC GGCACGACTT
6289  CTTCAAGAGC GCCATGCCTG AGGGATACGT GCAGGAGAGG ACCATCTCTT
6339  TCAAGGACGA CGGGAAC TAC AAGACACGTG CTGAAGTCAA GTTTGAGGGA
6389  GACACCCTCG TCAACAGGAT CGAGCTTAAG GGAATCGATT TCAAGGAGGA
6439  CGGAAACATC CTCGGCCACA AGTTGGAATA CAACTACAAC TCCCACAACG
6489  TATACATCAC GGCAGACAAA CAAAAGAATG GAATCAAAGC TAACTTCAAA
6539  ATTAGACACA ACATTGAAGA TGGAAGCGTT CAACTAGCAG ACCATTATCA
6589  ACAAATACT CCAATTGGCG ATGGCCCTGT CCTTTTACCA GACAACCATT
6639  ACCTGTCCAC ACAATCTGCC CTTTCGAAAAG ATCCCAACGA AAAGAGAGAC
6689  CACATGGTCC TTCTTGAGTT TGTAACAGCT GCTGGGATTA CACATGGCAT
6739  GGATGAACTA TACAAATAA
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Figure 8C

pVUG3 segment 6833-7901
(SEQ ID NO:6)

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6833  tcttcagggg aagatgggaa gaacactgat gagtctcgca aggtttactc
6883  ctctatcttc attgtttttt tacaaaatct tgtttattag aacaagaagt
6933  gaggatatga ttaaaactttg tttgacgaaa ccaggctctgt tccgactttc
6983  cgactctgag tttcgctagc atgtatttgg caaatcaaat accatggtct
7033  aataatcaaa cattctgatt agttgataat attagtatta gttggaaatt
7083  ttgtgaaaga ttcctatgaa aagtttcatt aacacggaat tcgtgtcgag
7133  tagaccttgt tgttgtgaga attcttaatt catgagttgt agggagggat
7183  ttATGAGTAA AGGAGAAGAA CTTTTCCTG GAGTTGTCCC AATTCTTGTT
7233  GAATTAGATG GTGATGTTAA TGGGCACAAA TTTTCTGTCA GTGGAGAGGG
7283  TGAAGGTGAT GCAACATACG GAAAACCTAC CCTTAAATTT ATTTGCACTA
7333  CTGGAAAACCT ACCTGTTCCA TGGCCAACAC TTGTCACTAC TTTCTCTTAT
7383  GGTGTTCAAT GCTTTTCAAG ATACCCAGAT CATATGAAGC GGCACGACTT
7433  CTTCAAGAGC GCCATGCCTG AGGGATACGT GCAGGAGAGG ACCATCTCTT
7483  TCAAGGACGA CGGGAACCTAC AAGACACGTG CTGAAGTCAA GTTTGAGGGA
7533  GACACCCTCG TCAACAGGAT CGAGCTTAAG GGAATCGATT TCAAGGAGGA
7583  CGGAAACATC CTCGGCCACA AGTTGGAATA CAACTACAAC TCCCACAACG
7633  TATACATCAC GGCAGACAAA CAAAAGAATG GAATCAAAGC TAACTTCAAA
7683  ATTAGACACA ACATTGAAGA TGGAAGCGTT CAACTAGCAG ACCATTATCA
7733  ACAAATACT CCAATTGGCG ATGGCCCTGT CCTTTTACCA GACAACCATT
7783  ACCTGTCCAC ACAATCTGCC CTTTCGAAAG ATCCCAACGA AAAGAGAGAC
7833  CACATGGTCC TTCTTGAGTT TGTAACAGCT GCTGGGATTA CACATGGCAT
7883  GGATGAACTA TACAAATAA
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Figure 9



Western blot analysis using anti-GFP antibody

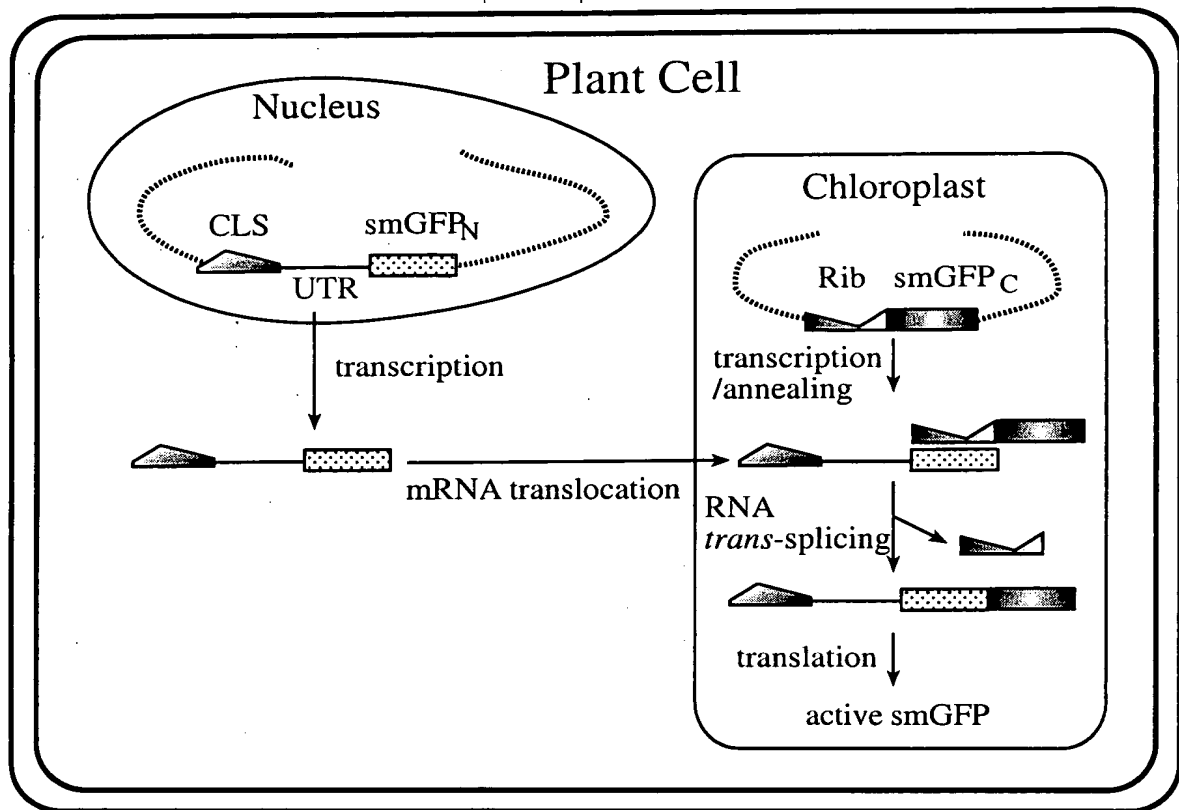


Figure 10

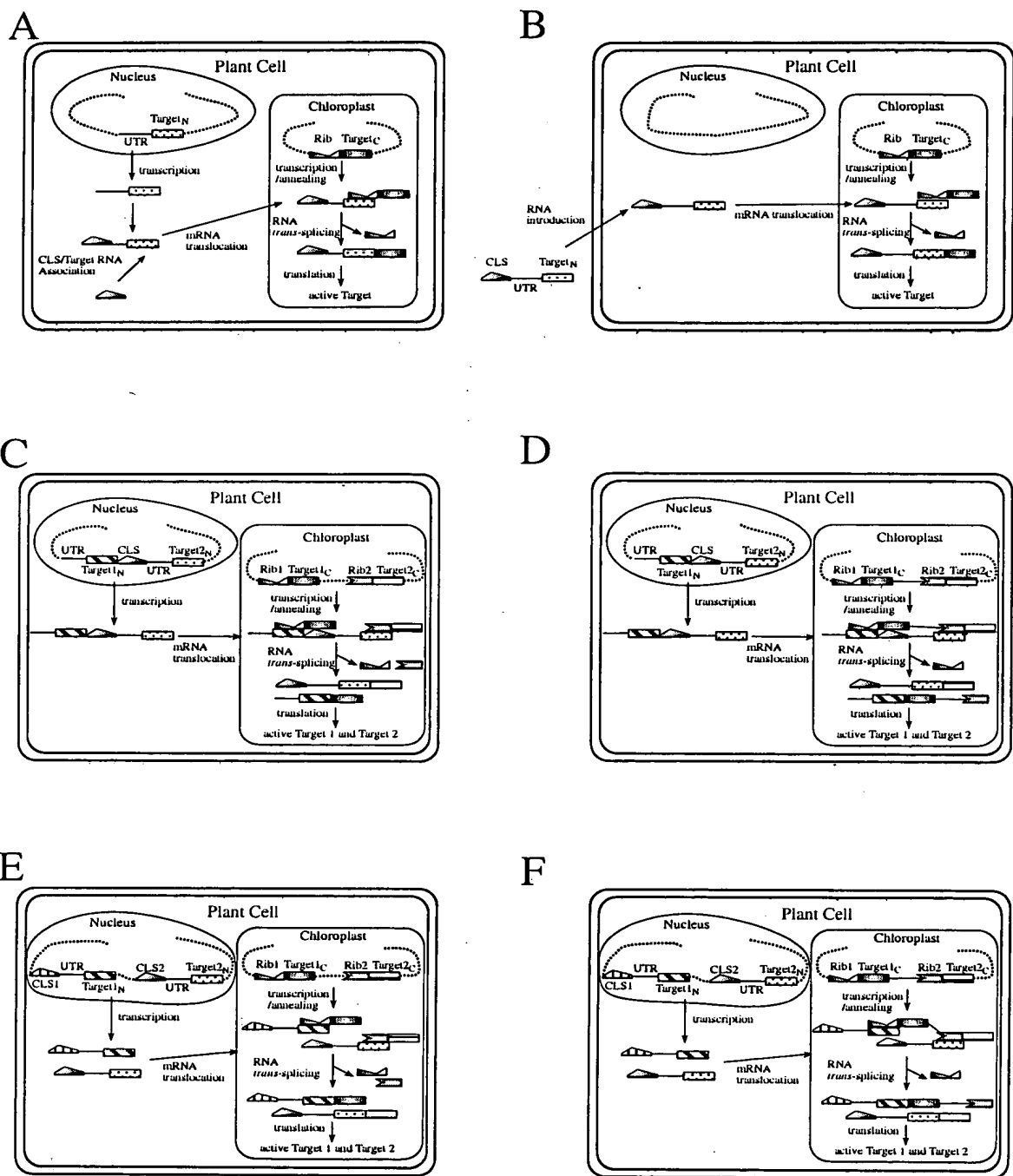


Figure 11